

1 1. An apparatus for housing and accessing an electrical device, the apparatus comprising:
2 an equipment drawer configured with a compartment; and
3 a mounting frame situated within the equipment drawer, the mounting frame
4 configured to transition between a plurality of functional positions, including a loading
5 position for receiving an electrical device and an operational position for the operation of the
6 electrical device.

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8 2. The apparatus of claim 1, wherein the mounting frame comprises:
9 a plate having a distal end and a proximal end;
10 a hinge configured to connect the distal end of the plate to the equipment drawer;
11 a mounting rail attached to a face of the plate oriented towards the equipment drawer,
12 the mounting rail further configured to mount the electrical device; and
13 an electrical connector adapted to receive a corresponding electrical connector on the
14 electrical device.

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16 3. The apparatus of claim 2, wherein the mounting frame swivels on the hinge, the
17 mounting frame transitioning between the operational position in which the mounting frame
18 is flush with the exterior surface of the equipment drawer and the loading position in which
19 the mounting frame is disposed at an angle to the equipment drawer.

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21 4. The apparatus of claim 3, wherein the mounting frame in the loading position is
22 configured to receive the electrical device on the mounting rail, the electrical device
23 engaging the mounting rail near the proximal end of the plate and sliding along the mounting
24 rail to connect with the mounting frame electrical connector.

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26 5. The apparatus of claim 1, wherein the equipment drawer is further configured to receive
27 a plurality of mounting frames.

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2 6. The apparatus of claim 1, further comprising a connector attached to the mounting
3 frame, the connector configured to provide electrical connectivity to the electrical device.
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5 7. The apparatus of claim 6, wherein the connector is further configured to facilitate hot
6 swapping of the electrical device.
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8 8. The apparatus of claim 1, wherein the mounting frame is further configured with
9 hardware for mounting the electrical device.
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11 9. The apparatus of claim 1, further comprising a backplane panel rigidly attached to the
12 mounting frame.
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14 10. The apparatus of claim 6, wherein the connector is disposed on the backplane panel.
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16 11. A hot swapping mounting assembly for placement in an equipment drawer, the
17 mounting assembly comprising:

18 a mounting frame situated within an equipment drawer, the mounting frame
19 configured to transition between a loading position and an operational position; and

20 a mounting rail attached to the mounting frame, the mounting rail configured to
21 receive a mounting guide of an electrical device.
22

23 12. The mounting assembly of claim 11, further comprising a connector attached to the
24 mounting frame, the connector configured to provide electrical connectivity to the electrical
25 device.
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1 13. The mounting assembly of claim 11, wherein the mounting frame is further configured
2 to retract within the equipment drawer.

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4 14. An apparatus for housing and accessing an electrical device, the apparatus comprising:
5 means for mounting an electrical device;
6 means for transitioning the mounting means between a loading position and an
7 operational position; and
8 means for connecting to the electrical device.

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10 15. The apparatus of claim 14, further comprising means for connecting the electrical
11 device.

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13 16. A system for housing and accessing an electrical device, the system comprising:
14 a computer equipment cabinet;
15 an equipment drawer; and
16 a mounting frame disposed within the equipment drawer and configured to transition
17 between a loading position for receiving an electrical device and an operational position.

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19 17. The system of claim 16, further comprising a connector configured to provide a
20 connection.

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22 18. The system of claim 16, wherein the mounting frame is further configured to retract
23 within the equipment drawer.

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25 19. The system of claim 16, wherein the mounting frame is further configured to allow hot
26 swapping of the electrical device.

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1 20. The system of claim 16, wherein the mounting frame is further configured with a
2 mounting rail for attaching the electrical device.

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4 21. The system of claim 16, wherein the mounting frame is further configured with a
5 backplane panel.

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7 22. A method for accessing an electrical device within a computer equipment cabinet, the
8 method comprising:

9 moving a mounting frame to a loading position;

10 connecting an electrical device to a connector connected with the mounting frame;

11 and

12 retracting the mounting frame and the electrical device to an operational position.

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14 23. The method of claim 22, further comprising removing the electrical device while
15 maintaining the operation of other electrical devices.

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17 24. The method of claim 22, wherein connecting the electrical device is conducted while
18 maintaining the operation of other electrical devices.